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HEAVY MINERAL TILL GEOCHEMISTRY (TIN) OF THE EASTERN AND CENTRAL SOUTH MOUNTAIN BATHOLITH

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HEAVY MINERAL TILL GEOCHEMISTRY (TIN) OF THE EASTERN AND CENTRAL SOUTH MOUNTAIN BATHOLITH[1]

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INTRODUCTION

This geochemical release is part of the South Mountain Batholith (SMB) Pleistocene mapping project, a contribution to the Canada - Nova Scotia Mineral Development Agreement (1984-1989). Part of this project involved collection of 2100 till samples on a 2 km^2 grid for regional geochemistry over the entire SMB. In this report tin data for heavy mineral concentrates are presented as raw (SnR) and weighted (SnW) values with accompanying contour maps for the eastern and central part of the SMB (map sheets 11D/05, 12, 13 and 21A/06, 07, 09, 10, 14, 15 and 16). Release of tin data for the western part of the SMB (map sheets 21A/03, 04, 05, 11 and 12), as well as data for a suite of other elements analyzed on a -230 mesh fraction from samples collected over the entire SMB, is pending. For information on the status of these other elements refer to Finck et al., 1989.

SAMPLE PREPARATION

Sample preparation was performed by the Minerals Engineering Centre of the Technical University of Nova Scotia. Samples consisted of 8-10 kg of till matrix sieved in the field through a 1.25 cm plastic screen. 5 kg of the till matrix were wet sieved through a 50 mesh and a 230 mesh screen. The -50+230 mesh fraction was used in the heavy liquid separation process.

Approximately 500 g of the -50+230 mesh fraction were placed in a separatory funnel with 350 ml of tetrabromethane. The sample was mixed, allowed to settle and the heavy minerals were run onto filter paper. This step was repeated three times. The heavy minerals were washed three times with acetone, dried, weighed and stored in glass tubes.

ANALYSIS

Analysis for Sn was carried out by X-RAY Assay Laboratories, Don Mills, Ontario. Heavy mineral concentrates were split prior to analysis; the authors retained 1/4 of the original sample for future reference. The 3/4 split was pulverized and subjected to a $LiBO_2$-HCl fusion in platinum crucibles followed by a flameless atomic absorption (AA) analysis. The detection limit was reported as 2 ppm.

Reference to SnR in Table 2 indicates that heavy mineral concentrates (HMC) prepared from till using the above procedure (when the till is of SMB provenance) should invariably contain greater than 2 ppm Sn. Sn values should also be highly variable due to the nuggety nature of HMC. The average raw Sn value in this survey was approximately 60 ppm, however this value varies depending on the absence or presence of mineralization and also the till unit(s) sampled (see Table 1). For example, if the tills are divided into populations the average raw Sn value may vary from a high of 80 ppm in GTB to a low of 22 ppm in MSRT (see Surficial Geology section for key to units). If analyses of granite tills are carried out and the bulk of samples return Sn values between 2 and

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10 ppm there is probably a problem with the analytical method chosen. Note (Table 2) that very few samples returned values <10 ppm; samples with <10 ppm Sn are generally from GSRT or MSRT.

Simple multi-acid dissolution methods are not appropriate when analyzing for Sn if it occurs as the oxide cassiterite. Multi-acid dissolutions have been found by the authors to be incapable of dissolving SnO_2. A fusion or 'total' analytical method such as X-ray fluorescence (XRF) or mass spectrometry (MS) is required. Note that 5 g of heavies are generally required for XRF analysis. Examination of the weight of heavy minerals recovered from samples in this survey (W1 in Table 2) illustrates that many samples contain much less than 5 g and as such analysis by XRF would not be possible.

ANALYTICAL CONTROL

One high and one low Sn standard were inserted in each batch of 20 samples prior to analysis. An analytical split was also inserted within each batch. Individuals who wish to examine these data may do so by contacting the authors.

Analytical and intersample variations are generally difficult to measure when dealing with heavy mineral concentrates which tend to be naturally inhomogeneous and generally yield small weights of material for analysis. Variation of the standards with time is minimal and analytical splits are acceptable given the nature of the heavy mineral pulps. Maps 1 and 2 show anomalous Sn values in areas of known Sn mineralization; examples are Bezanson Lake (Corey, 1988) and East Dalhousie (Horne, 1987; MacLeod, 1983; MacGillivray, 1982; O'Reilly, 1982). Anomalous samples and areas of elevated Sn background, within the area of the SMB analyzed to date, are generally associated with more evolved granitic bodies.

DATA PRESENTATION

Tin analyses are presented as raw Sn (SnR) and weighted Sn (SnW). Raw Sn values are the laboratory values received from X-RAY Assay Laboratories. The weighted Sn values (SnW) are raw values corrected for variation in the weight of heavy minerals contained within the -50+230 mesh fraction used in the heavy liquid separation. Raw heavy mineral analytical values for Sn were weighted as in Toverud (1982) using the formula:

$$SnW = SnR \times (W1/W2)$$

where W1 is the weight of heavy minerals collected from a measured weight of -50+230 mesh till matrix (W2) used in the heavy liquid separation process.

Table 2 lists SnR, SnW, W1, W2, Till Type, Formation and Map number for each sample. Map numbers were assigned to each sample by map sheet, starting in the upper left hand corner and proceeding to the bottom of the 1:50 000 map sheet by wrapping back and forth across the sheet. Not all map numbers shown on the contour maps have Sn geochemistry listed in the data tables. Northing and easting coordinates are available for each sample as ASCII or Lotus-123 files. Detailed pebble counts for each sample in which the different granite, Meguma Group and allochthonous clasts are identified as a percentage of the total clast count are also available on computer disk.

TABLE 1. Basic statistics (ppm) of mean and standard deviation for the raw Sn data set divided on the basis of till type.

Till Type	Mean	Standard Deviation
GTB	80	143
GTB(D)	56	78
LT	51	65
GTB/GWB-STB	37	51
GWB-STB	41	56
GSRT	37	23
MSRT	22	30

The BEAVER RIVER TILL ground moraine (GTB) is composed almost entirely of material with an SMB provenance. The LAWRENCETOWN TILL (LT) may contain as little as 10% granitic material. The BEAVER RIVER TILL drumlin-derived moraine (GTB(D)) is a mixture of the two till units. The SMB is a peraluminous intrusive body in which the average concentration of Sn (eastern half) increases from 5-27 ppm with increasing differentiation from biotite granodiorite to leucogranite (MacDonald et al., 1989). As such the high, erratic concentration of Sn in the coarse grained, sandy GTB (Table 1) is as expected. The muddy, more uniform LT, derived predominantly from north of the SMB, has a much lower, less erratic Sn content. The average concentration of Sn and its uniformity in GTB(D) is as expected for a mixture of GTB and LT.

Due to the lower background concentration of Sn in LAWRENCETOWN TILL, its masking effect on bedrock tin mineralization, and dilution of Sn in the BEAVER RIVER TILL drumlin-derived moraine the best contouring method would be to normalize the data with respect to the three major till types GTB, GTB(D), and LT. In this geochemical release approximate means and standard deviations were calculated for SnR and SnW based on the entire data set without a distinction based on till type. The contour intervals on Maps 1 and 2 for SnR and SnW are based on mean plus increments of one standard deviation. The data were contoured by hand using a triangulation method. The contour intervals, though based on mean and standard deviations, should be viewed as arbitrary for the reasons discussed above.

The contouring on Maps 1 and 2, since it is based on the entire data set and not the three main till types, overemphasizes the Sn concentration in GTB and underemphasizes the Sn concentration in GTB(D) and LT. As such the authors suggest that reference should be made to the till types (Table 2) and to Open File Map 89-018, *Preliminary glacial geology of the South Mountain Batholith*, when interpreting the contoured geochemistry.

SURFICIAL GEOLOGY

Formations and till units listed in the data table are keyed to Open File Map 89-018, *Preliminary glacial geology of the South Mountain Batholith* (Finck et al., 1989). The legend to OFM 89-018 is reproduced below for the reader's reference. Figure 1, also reproduced from OFM 89-018, illustrates the spatial and temporal relationships between till units mapped on the SMB.

LEGEND

SURFICIAL DEPOSITS

QUATERNARY

HOLOCENE - LATE WISCONSINAN

MARINE - ALLUVIAL AND OUTWASH DEPOSITS (MA, OW): MA; silty clay, sand and gravel; forms estuarine deposits, alluvial floodplain and alluvial channel deposits. OW; silt, sand and gravel; massive to horizontally bedded; channel sequences common; forms flat plains and terraced deposits.

ICE CONTACT DEPOSITS (ICSD): silty sand, gravel and boulders, abrupt grain size transition between shallow- to steeply-dipping beds; faulting is common; clasts reflect provenance of surrounding till; may be interstratified with till; may form kames, kame terraces, ice contact deltas and eskers; thickness 1-15 m.

LATE - MIDDLE WISCONSINAN

SHELBURNE RIVER TILL (SRT): Divided into granite (GSRT) and greywacke/slate (MSRT) lithofacies; loose, texture varies from a sandy matrix-rich to a stony, clast supported till; colour varies from white (10YR8/1)* to very pale brown (10YR7/3); nonweathered appearance; occurs as hummocks, ridges and a rolling ground moraine; deposits are crudely stratified; spatially associated with kames and eskers; exhibits extensive onlap of clasts down-ice onto adjacent bedrock units; renewal distances** vary from 0.1 km to >5 km; matrix may be derived from up-ice lithologies and may not reflect the composition of the pebble fraction; thickness varies from 1-3 m in areas of ground moraine to 10-15 m on hummocks and ridges; the major transport direction is toward the southeast with lesser transport toward the south and west.

BEAVER RIVER TILL (BRT): Divided into ablation, ground moraine and drumlin-derived units.

Ablation moraine: Subdivided into granite (GTC), greywacke (GWC) and slate (STC) lithofacies; loose, matrix supported till containing intrabeds of silt, sand and gravel; colour varies from very pale brown (10YR7/4) to yellowish-brown (10YR5/4); forms hummocks and ridges with associated ice contact deposits; locally derived or may exhibit extensive onlap of clasts and matrix down-ice onto adjacent rock types; renewal distances vary from 0.1 - 6 km; thickness 1-10 m; glacial transport is toward the southeast and south.

Ground moraine: Subdivided into granite (GTB) and greywacke-slate (GWB)-(STB) lithofacies; structureless stony matrix though sandier varieties with minor washed zones around boulders are common; colour varies from light yellowish-brown (10YR6/4) to dark yellowish-brown (10YR4/4) in the granitic facies, light olive-brown (2.5Y5/4) in the greywacke and slate facies; generally forms a featureless ground moraine; exhibits rapid lithological change down-ice of bedrock contacts, >90% of clasts are transported less than 1 km; renewal distances vary from tens to hundreds of metres; thickness 1-6 m; glacial transport directions are difficult to determine due to short renewal distance, it is southeastward across most of the South Mountain Batholith (SMB), however northward, northwestward and westward dispersal were mapped in the northern and western margins of the SMB.

Drumlin-derived moraine (GTB(D)): Loose, medium- to coarse-grained sandy matrix, moderately stony, minor washing; colour is brown (10YR5/3) to dark yellowish-brown (10YR4/4); till mantles and forms a ground

moraine between drumlins; nongranitic lithologies are incorporated from stratigraphically older tills; matrix composition is in part dependent on composition of reworked older till; thickness 1-4 m; actual glacial transport directions are the same as those of the ground moraine unit, however a strong southeast transport was inherited from older, reworked southeast transported till(s).

LAWRENCETOWN TILL (LT): Muddy to sandy till, moderately compact, jointed, greenish mottling in the weathered zone; colour varies from dark reddish-brown (2.5YR3/4) to strong brown (7.5YR4/6); occurs as a ground moraine and drumlins; also includes areas previously mapped as undivided till containing exposures of Hartlen (GTA), Beaver River (GTB) and Lawrencetown Tills; due to limited areal extent individual tills do not form mappable units; clast lithologies vary from 10-90% local bedrock to 10-90% non-granitic clasts derived from as far as 90 km; distal sources are the metasedimentary/volcanic massif complex of the Cobequid Highlands, Meguma Group, metasedimentary and volcanic rocks of the White Rock, New Canaan, Kentville and Torbrook formations, Windsor Sub-basin and North Mountain basalt; renewal distances vary from hundreds of metres to tens of kilometres; thickness is 1-2 m as a ground moraine and 4-30 m as drumlins; dispersal directions vary from southward in the eastern SMB to southeastward in the western part of the SMB.

EARLY WISCONSINAN (?)

HARTLEN TILL (H): Divided into granite (GTA) and slate (STA) lithofacies; sandy, compact till, clast-rich, fissile; colour varies from strong brown (7.5YR4/6) in granite facies to olive (5Y5/3) in slate facies; generally forms or cores drumlins; clast lithology dominated by local bedrock lithologies; 10-35% of clasts transported 20-25 km; thickness 1-10 m; glacial transport is toward the southeast with lesser transport toward the east-southeast(?).

PRE-WISCONSINAN

RESIDUUM (R): Chemically weathered bedrock; commonly develops a soil-like consistency due to *in situ* weathering followed by glacial mixing; may retain hypidiomorphic granular texture of parent granite, preservation of K-feldspar megacrysts and hydrothermally altered fracture zones; restricted to the topographically higher regions of the Southern Uplands; thickness varies from a thin veneer to >3 m.

BEDROCK: Glacially scoured bedrock; areas of discontinuous till veneer and B-horizon soil developed to bedrock; bedrock structure and large scale features of glacial erosion are easily discernible on aerial photographs.

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* All colours from Munsell Soil Colour Chart

** Renewal distance is the distance required by a given rock type (measured from the proximal contact of the up-ice lithology) to increase its proportion in till from 0% to 50% (Peltoniemi, 1985).

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FIGURE 1

BLOCK DIAGRAM ILLUSTRATING THE TEMPORAL AND SPACIAL RELATIONSHIPS BETWEEN SURFICIAL LITHOSTRATIGRAPHIC UNITS MAPPED ON THE SOUTH MOUNTAIN BATHOLITH

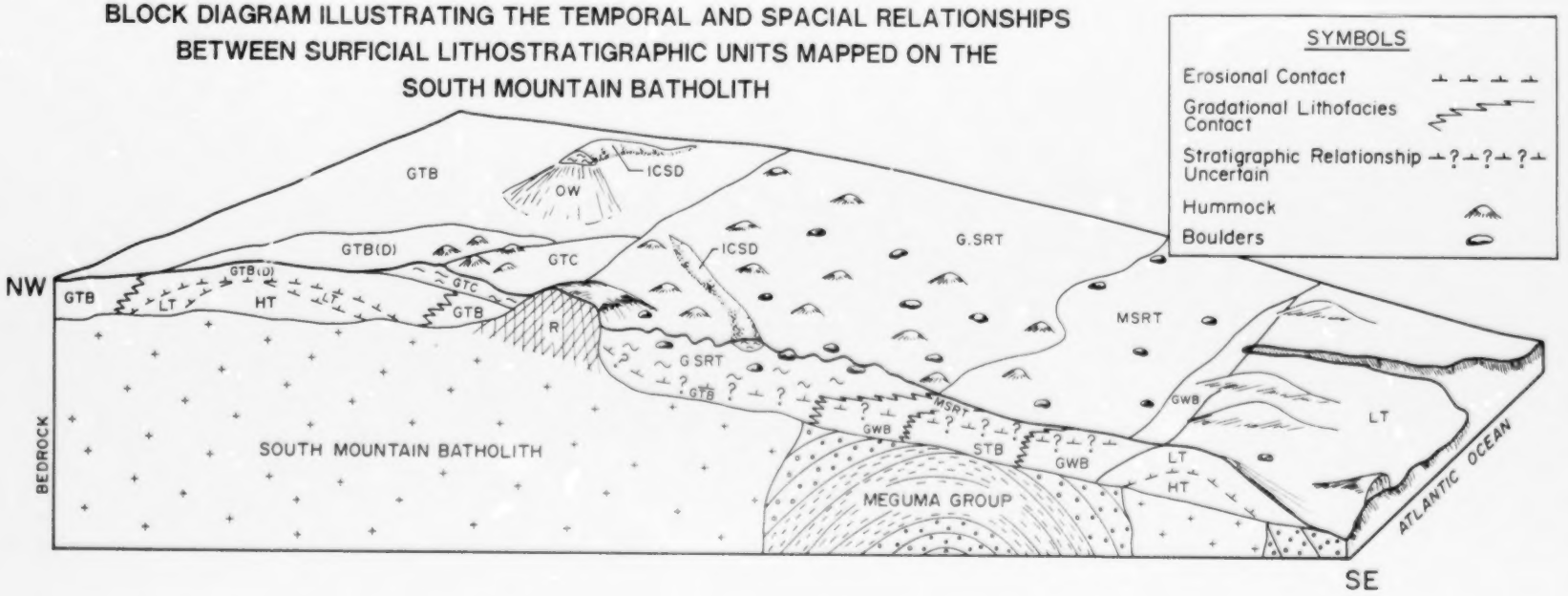

TABLE 2

TIN ANALYSIS

KEY

SnR	-	raw tin analytical value
W1	-	total weight of heavy minerals
W2	-	weight of -50+230 mesh fraction used in heavy liquid separation
SnW	-	weighted tin analytical value
Form	-	formation
TT	-	till type lithofacies

N.T.S. 11D/12 - 11D/05

MAP#	SnR	V1	V2	SnV	FORM	TT
1	8	2.190	465	0.0377	BRT	GTB(D)
2	26	2.760	412	0.1742	BRT	GTB
3	6	2.170	430	0.0303	BRT	GTB
4	18	4.360	424	0.1851	BRT	GTB
6	17	2.040	415	0.0836	BRT	GTB(D)
7	16	3.830	475	0.1290	BRT	GTB(D)
8	37	5.870	475	0.4572	LT	
9	24	1.290	248	0.1248	LT	
10	29	3.670	347	0.3067	LT	
11	16	3.700	372	0.1591	LT	
12	16	8.360	342	0.3911	LT	
13	12	3.690	436	0.1016	LT	
14	19	6.930	450	0.2926	H	GTA
16	11	3.400	450	0.0831	BRT	GTB(D)
17	21	1.810	462	0.0823	BRT	GTB
18	24	2.610	346	0.1810	BRT	GTB
19	83	5.750	491	0.9720	BRT	GTB
20	10	3.580	450	0.0796	BRT	GTB
22	190	1.630	483	0.6412	BRT	GTB
23	180	1.520	891	0.3071	BRT	GTB
24	94	1.410	466	0.2844	BRT	GTB
25	210	1.290	399	0.6789	BRT	GTB
26	120	3.790	400	1.1100	BRT	GTB
27	11	4.510	425	0.1167	BRT	GTB(D)
28	20	4.270	464	0.1841	H	GTA
29	80	1.610	409	0.3149		R
30	20	5.830	428	0.2724	LT	
31	13	2.840	422	0.0875	LT	
32	12	5.000	347	0.1729	BRT	GWB
33	16	2.300	488	0.0754	LT	
34	60	2.750	257	0.6420	BRT	GTB
35	35	4.760	450	0.3702	BRT	GTB(D)
36	36	6.750	450	0.5400	BRT	GTC
37	19	2.190	450	0.0925	BRT	GTB(D)
38	54	2.370	454	0.2819	BRT	GTB
39	51	2.150	437	0.2509	BRT	GTB(D)
40	80	1.980	439	0.3608	BRT	GTB
41	29	2.160	687	0.0912	BRT	GTB
42	520	3.070	849	1.8803	BRT	GTB
43	260	2.160	449	1.2508	BRT	GTB
44	17	3.410	450	0.1288	BRT	GTB
45	31	1.340	414	0.1003	BRT	GTB
46	240	1.850	450	0.9867	BRT	GTB
47	120	2.370	469	0.6064	BRT	GTB
48	28	1.630	458	0.0997	BRT	GTB
50	15	3.590	470	0.1146	LT	
51	370	3.970	403	3.6449	BRT	GTB
53	80	3.190	446	0.5722	BRT	GTB(D)
54	220	2.760	447	1.3584	BRT	GTB
55	80	3.060	445	0.5501	H	GTA
57	78	8.000	460	1.3565	BRT	GTB(D)
59	200	2.600	450	1.1556	BRT	GTB(D)
64	12	6.200	452	0.1646	BRT	GTB/GWB
65	23	3.600	469	0.1765	BRT	GTB
66	18	7.670	498	0.2772	LT	
67	150	2.790	367	1.1403	BRT	GTB
68	31	1.860	396	0.1456	BRT	GTB
69	32	2.920	491	0.1903	BRT	GTB(D)
70	130	1.470	468	0.4083	BRT	GTB(D)
71	7	6.820	498	0.0959	H	GTA
72	680	1.340	397	2.2952	BRT	GTB
73	79	3.180	443	0.5671	BRT	GTB
74	15	2.910	485	0.0900	BRT	GTB(D)
76	37	5.060	339	0.5523	BRT	GTB
77	25	2.620	503	0.1302	LT	
78	30	8.910	413	0.6472	BRT	GTB(D)
81	13	3.320	495	0.0872	LT	
82	14	3.650	407	0.1256	LT	
83	42	1.280	152	0.3537	LT	
84	17	3.320	485	0.1164	LT	
85	27	3.140	452	0.1876	BRT	GTB(D)
86	50	1.660	433	0.1917	BRT	GTB(D)
87	150	2.470	459	0.8072	BRT	GTB
88	100	1.940	474	0.4093	BRT	GTB(D)
89	76	5.950	425	1.0640	BRT	GTC(D)
90	120	3.170	458	0.8306	BRT	GTB(D)
91	160	1.930	314	0.9834	BRT	GTB
92	88	3.080	406	0.6676	BRT	GTC(D)
93	28	1.780	379	0.1315	BRT	GTB(D)
94	120	3.040	495	0.7370	BRT	GTC(D)
96	41	1.830	485	0.1547	BRT	GTB
97	27	5.860	461	0.3432	BRT	GTB(D)
98	13	2.270	259	0.1139	LT	
99	24	1.660	106	0.3758	BRT	GTB
100	34	1.250	449	0.0947	LT	
101	20	3.760	418	0.1799	LT	
103	17	6.710	340	0.3355	BRT	STB
104	17	5.670	428	0.2252	BRT	GTB
105	21	3.130	226	0.2908	BRT	GTB
107	35	1.930	505	0.1338	BRT	GTB(D)
108	47	3.170	421	0.3539	BRT	GTB
109	17	4.660	450	0.1760	BRT	GTB(D)
110	18	4.200	504	0.1500	BRT	GTB(D)
111	50	2.790	492	0.2835	BRT	GTB
112	65	4.030	415	0.6312	BRT	GTC(D)
113	110	2.200	398	0.6080	BRT	GTB(D)
114	65	2.820	530	0.3458	BRT	GTB
115	50	3.430	442	0.3880	BRT	GTB(D)
116	33	2.280	345	0.2181	LT	
117	27	3.290	179	0.4963	BRT	GTB
118	36	3.800	467	0.2929	LT	
119	63	2.540	401	0.3991	BRT	GTB
120	50	2.270	456	0.2489	BRT	GTB(D)
121	26	3.800	291	0.3395	BRT	GTB(D)
122	50	8.650	541	0.7994	BRT	GTB
123	32	2.230	478	0.1493	BRT	GTB(D)
124	32	3.040	447	0.2176	BRT	GTB(D)
125	20	3.130	495	0.1265	BRT	GTB(D)
126	56	3.450	300	0.6440	BRT	GTB(D)
127	36	3.220	447	0.2593	LT	
128	17	2.560	482	0.0903	LT	
129	12	1.890	462	0.0491	LT	
130	22	4.920	425	0.2547	LT	
131	26	3.180	505	0.1637	BRT	GTB(D)
132	24	6.610	371	0.4276	BRT	GTB
133	12	4.460	416	0.1287	LT	
135	21	2.450	464	0.1109	LT	
137	41	2.200	450	0.2004	BRT	GTB(D)
138	69	2.600	464	0.3866	LT	
139	50	2.210	464	0.2381	BRT	GTB(D)
140	19	6.410	400	0.3045	BRT	GTB(D)
141	32	3.100	456	0.2175	LT	
142	19	3.770	488	0.1468	LT	
143	110	6.360	1534	0.4561	BRT	GTC(D)
144	23	3.490	437	0.1837	BRT	GTB(D)
145	26	3.100	362	0.2227	BRT	GTB
146	24	4.680	407	0.2760	LT	
147	20	5.780	464	0.2491	LT	
148	140	2.630	252	1.4611	BRT	GTB
149	75	4.010	410	0.7335	BRT	GTB
150	30	2.550	459	0.1667	BRT	GTB
151	32	2.980	471	0.2025	BRT	GTB
152	110	2.710	483	0.6172	BRT	GTB
153	22	2.350	514	0.1006	BRT	GTB
154	18	2.760	425	0.1169	BRT	GTB(D)
155	27	2.160	459	0.1271	LT	
156	23	4.720	468	0.2320	BRT	GTB(D)
159	31	2.810	487	0.1789		
160	30	4.300	484	0.2665	LT	
161	25	2.760	431	0.1601	BRT	GTB(D)
162	13	6.440	447	0.1873	BRT	GWB
163	21	7.610	485	0.3295	BRT	GTB/GWB
164	24	3.150	412	0.1835	BRT	GTB(D)
165	18	3.360	478	0.1265	LT	
166	11	2.580	487	0.0583	BRT	GTB(D)
167	27	3.560	461	0.2085	BRT	GTB

MAP#	SnR	W1	W2	SnW	FORM	TT
168	25	2.600	418	0.1555	LT	
169	25	2.640	408	0.1618	LT	
170	15	3.510	509	0.1034	BRT	GTB(D)
171	60	1.180	486	0.1457	BRT	GTB(D)
172	100	3.140	450	0.6978	BRT	GTB(D)
174	19	3.560	482	0.1403	BRT	GTB(D)
178	30	1.330	479	0.0833	BRT	GTB(D)
180	54	2.340	258	0.4898	BRT	GTC(D)
181	32	4.340	282	0.4925	BRT	GTB
182	53	2.070	316	0.3472	BRT	GTB
184	30	4.170	449	0.2786	BRT	GTB(D)
185	55	2.730	400	0.3754	BRT	GTB(D)
186	20	3.740	450	0.1662	LT	
187	21	4.090	450	0.1909	BRT	GTB(D)
188	21	2.350	425	0.1161	LT	
189	35	4.900	560	0.3063	BRT	GTB(D)
190	8	2.820	476	0.0474	BRT	GTB
191	24	5.550	453	0.2940	BRT	GTB(D)
192	22	4.630	407	0.2503	BRT	GTB(D)
194	39	5.640	460	0.4782	BRT	GTB(D)
195	29	3.930	449	0.2538	BRT	GTB(D)
196	18	4.000	343	0.2099	BRT	GTB(D)
197	17	4.670	450	0.1764	BRT	GTB
198	23	3.620	472	0.1764	BRT	GTB(D)
199	6	3.460	429	0.0484	BRT	GTB
200	12	4.300	404	0.1277	BRT	GTB(D)
201	8	3.000	434	0.0553	BRT	GTB(D)
202	15	6.110	402	0.2280	BRT	GTB(D)
203	18	1.770	449	0.0710	BRT	GTB(D)
204	12	3.400	482	0.0846	BRT	GTB(D)
205	14	6.560	362	0.2537	BRT	GTB(D)
206	76	2.130	382	0.4238	BRT	GTB(D)

N.T.S. 11D/13

MAP#	Sm#	M1	M2	SmW	FORM	TT
1	19	2.960	426	0.1320	BRT	GWB
2	10	2.658	475	0.0560	LT	
3	6	1.961	405	0.0291	BRT	GTB
4	3	5.414	335	0.0485	BRT	STB
5	6	3.198	425	0.0451	LT	
6	8	3.229	400	0.0646	BRT	GTB
7	12	2.374	402	0.0709	LT	
8	17	2.023	356	0.0966	LT	
9	26	6.749	400	0.4387	BRT	CTC(D)
10	44	1.913	427	0.1971	LT	
11	8	2.548	370	0.0551	LT	
12	7	6.778	432	0.1098	BRT	GTB/GWB
13	5	3.033	323	0.0470	BRT	GWB
15	12	1.397	400	0.0419	LT	
16	10	2.082	440	0.0473	LT	
17	12	2.733	397	0.0826	BRT	GTB(D)
18	7	1.906	425	0.0314	BRT	GTB(D)
19	4	5.421	495	0.0438	BRT	GWC
20	6	4.070	435	0.0561	BRT	GTB/GWB
22	9	2.168	627	0.0311	BRT	GTB
23	15	2.328	565	0.0618	BRT	GTB(D)
24	14	2.244	436	0.0721	LT	
25	17	2.681	415	0.1095	LT	
26	29	11.045	464	0.6903	BRT	GTB
27	35	2.288	586	0.1367	LT	
28	8	2.816	423	0.0533	LT	
29	13	2.007	424	0.0615	LT	
30	5	2.994	452	0.0331	BRT	GWB
31	3	3.368	446	0.0227	BRT	GTB
33	15	1.586	438	0.0543	LT	
35	16	2.250	420	0.0857	BRT	GTB
36	28	6.927	463	0.4189	BRT	GTB
37	13	1.610	479	0.0437	BRT	GTB
38	3	2.610	401	0.0195	BRT	GTB
39	68	2.299	402	0.3889	BRT	GTB
40	10	6.470	469	0.1380	BRT	GTB(D)
42	19	2.635	427	0.1172	BRT	GTB

N.T.S. 21A/06 - 21A/07

MAP#	SnR	W1	W2	SnW	FORM	TT
1	13	6.365	400	0.2069	BRT	GTB(S)
2	22	6.449	366	0.3876	BRT	GTB
3	13	4.006	400	0.1302	BRT	GTB
4	41	2.698	216	0.5121	BRT	GTB
5	31	2.386	422	0.1753	BRT	GTB
6	6	4.545	383	0.0712	BRT	GTB
7	22	3.755	355	0.2327	BRT	GTC
8	20	3.557	296	0.2403	BRT	GTB
9	28	2.816	284	0.2776	BRT	GTB
10	32	2.551	256	0.3189	BRT	GTB
11	9	4.548	448	0.0914	BRT	GTB
12	28	3.046	451	0.1891	BRT	GTB
13	8	11.901	302	0.3153	BRT	GWB
14	8	2.289	126	0.1453	BRT	STB
15	8	6.729	400	0.1346	BRT	STB
16	8	2.916	308	0.0757	BRT	STB
17	6	3.705	295	0.0754	BRT	GWB
18	6	1.311	86	0.0915		ICSD
19	9	3.990	341	0.1053	BRT	GTB
20	11	10.849	402	0.2969	BRT	GTB
21	13	0.526	142	0.0482	BRT	GTB
22	25	1.941	408	0.1189	BRT	GTB
23	20	1.916	198	0.1935	BRT	GTB
24	16	2.663	430	0.0991	BRT	GTB
25	42	6.046	260	0.9767	BRT	GTB
26	57	1.367	428	0.1821	BRT	GTB
27	33	0.730	245	0.0983	BRT	GTB
28	17	1.254	194	0.1099	BRT	GTB
29	8	1.635	400	0.0327	BRT	GTB
30	7	0.358	48	0.0522		ICSD
31	8	0.740	233	0.0254	BRT	GWB
32	13	0.868	431	0.0262	BRT	GWB
33	18	4.027	450	0.1611	BRT	GTB
34	21	2.501	450	0.1167	BRT	GTB
35	31	3.449	450	0.2376	BRT	GTB
36	13	6.371	418	0.1981		(G)LAC
37	11	4.606	277	0.1829		ICSD
38	26	1.818	450	0.1050	BRT	GTB
39	17	6.979	450	0.2637	BRT	GTB
40	27	4.817	450	0.2890	BRT	GTC
41	8	1.426	400	0.0285	BRT	GWB
42	2	3.831	215	0.0356	BRT	GWB
43	7	2.380	426	0.0391	SRT	MSRT
44	10	2.038	400	0.0509	SRT	MSRT
45	16	7.006	434	0.2583	SRT	MSRT
46	4	4.872	278	0.0701	SRT	MSRT
47	160	1.063	400	0.4252	SRT	MSRT
48	13	0.728	335	0.0283	SRT	MSRT
49	19	1.853	369	0.0954	BRT	GTB
50	19	3.049	379	0.1529	BRT	GTB
51	4	3.177	450	0.0282	BRT	GTB
52	33	2.593	257	0.3330	SRT	GSRT
53	13	0.784	152	0.0671		ICSD
54	180	0.301	86	0.6300		ICSD
55	9	1.021	426	0.0216	SRT	MSRT
56	14	2.986	400	0.1045	SRT	MSRT
57	9	2.270	400	0.0511	SRT	MSRT
58	13	0.968	173	0.0727	SRT	GSRT
59	20	2.205	352	0.1253	SRT	MSRT
60	11	1.529	400	0.0420	SRT	MSRT
61	16	2.617	392	0.1068	SRT	GSRT
62	20	2.369	400	0.1185	SRT	GSRT
64	23	2.914	375	0.1787	SRT	GSRT
65	19	2.243	400	0.1065	SRT	GSRT
66	30	0.848	400	0.0636	SRT	GSRT
67	19	3.196	400	0.1518	SRT	GSRT
68	19	6.235	400	0.2962	SRT	GSRT
69	46	1.777	328	0.2492	SRT	GSRT
70	43	2.719	149	0.7847		R
71	21	0.570	400	0.0299	SRT	MSRT
72	19	1.025	400	0.0487	SRT	GSRT
73	4	1.095	400	0.0110	SRT	GSRT
74	34	0.681	400	0.0579	SRT	GSRT
75	13	2.040	400	0.0663	SRT	GSRT
76	32	1.990	454	0.1403	SRT	GSRT
77	39	1.548	400	0.1509	SRT	GSRT
78	13	1.277	400	0.0415	SRT	MSRT
79	29	1.260	400	0.0914	SRT	GSRT
80	28	2.245	414	0.1518	SRT	GSRT
81	21	2.330	400	0.1223	SRT	GSRT
82	25	1.445	400	0.0903	SRT	GSRT
83	21	2.616	400	0.1373	SRT	GSRT
84	30	1.634	400	0.1225	SRT	GSRT
85	15	5.251	400	0.1969	SRT	MSRT
86	45	1.017	321	0.1426	SRT	GSRT
87	35	3.289	445	0.2587	SRT	GSRT
88	42	1.400	412	0.1427	SRT	GSRT
89	34	1.058	371	0.0970	SRT	GSRT
90	64	0.727	259	0.1796	SRT	GSRT
91	16	1.637	400	0.0655	SRT	GSRT
92	71	0.948	350	0.1923	SRT	GSRT
93	26	0.972	400	0.0632	SRT	GSRT
94	31	3.267	516	0.1963	SRT	GSRT
95	17	2.323	327	0.1208	SRT	MSRT
96	14	1.707	400	0.0597	SRT	GSRT
97	33	2.135	400	0.1761	SRT	MSRT
98	17	1.475	400	0.0627	SRT	MSRT
99	14	1.193	361	0.0463	SRT	MSRT
100	18	1.366	366	0.0672	SRT	MSRT
101	19	1.713	400	0.0814	SRT	MSRT
102	24	3.267	450	0.1742	SRT	MSRT
103	28	1.731	450	0.1077	SRT	GSRT
104	58	0.695	450	0.0896	SRT	GSRT
105	86	0.952	450	0.1819	SRT	GSRT
106	15	0.962	400	0.0361	SRT	GSRT
107	86	0.737	384	0.1651	SRT	GSRT
108	64	0.798	258	0.1980	SRT	GSRT
110	110	0.633	450	0.1547	SRT	GSRT
111	71	0.751	450	0.1185	SRT	GSRT
112	64	0.970	450	0.1380	SRT	GSRT
113	40	0.701	450	0.0623	SRT	GSRT
114	71	0.586	450	0.0925	SRT	GSRT
115	18	1.336	450	0.0534	SRT	GSRT
116	15	0.974	400	0.0365	SRT	MSRT
117	17	1.293	400	0.0550	SRT	MSRT
118	32	1.501	400	0.1201	SRT	MSRT
119	9	8.106	311	0.2346	BRT	STB
120	11	1.551	158	0.1080	BRT	STB
121	6	9.188	400	0.1378	BRT	GTC/STC
122	8	5.473	400	0.1095	BRT	GTC/STC
123	6	16.706	426	0.2353	BRT	STB
124	8	3.880	400	0.0776	BRT	GTB/STB
125	10	4.194	320	0.1311	BRT	GTB
126	12	3.278	400	0.0983	BRT	GTB
127	15	2.268	399	0.0853	BRT	GTB
128	11	3.435	400	0.0945	BRT	STB
129	17	3.601	400	0.1530	BRT	GTB
130	9	5.601	400	0.1260	BRT	GTB/STB
131	6	4.096	400	0.0614	BRT	GTB
132	7	0.609	72	0.0592		ICSD
133	28	4.152	400	0.2906	BRT	GTC
134	18	14.083	265	0.9566	BRT	STB
135	11	12.146	380	0.3516	BRT	STB
136	17	2.042	430	0.0807	BRT	GTB
137	4	5.400	398	0.0543	BRT	STB
138	6	16.573	400	0.2486	BRT	STB
139	21	2.607	400	0.1369	H	STA

N.T.S. 21A/09

MAP#	SnR	W1	W2	SnW	FORM	TT
1	89	3.130	527	0.5286	LT	
2	53	6.608	520	0.6735	LT	
3	190	8.035	425	3.5921	BRT	GTB(D)
4	190	7.548	445	3.2227	BRT	GTB(D)
5	290	3.156	425	2.1535	BRT	GTB(D)
6	130	1.730	480	0.4685	BRT	GTB(D)
7	48	2.311	455	0.2438	LT	
8	50	1.189	823	0.0722	BRT	GTB
9	44	3.803	478	0.3501	BRT	GTB
10	17	1.510	395	0.0650	BRT	GTB
11	15	2.281	468	0.0731	BRT	GTB
12	19	3.396	438	0.1473	BRT	GTB(D)
13	10	3.365	395	0.0852	BRT	GTB(D)
14	16	2.983	485	0.0985	BRT	GTB
15	820	1.043	204	4.1925	BRT	GTB
16	24	3.605	438	0.1975	BRT	GTB
17	23	5.090	450	0.2602	BRT	GTB
18	13	2.710	412	0.0855	BRT	GTB
19	54	4.309	443	0.5253	BRT	GTB
20	11	3.692	450	0.0902	BRT	GTB
21	39	1.943	464	0.1633	BRT	GTB(D)
22	94	4.040	386	0.9838	BRT	GTB
23	77	1.141	495	0.1775	LT	
24	13	4.627	475	0.1266	BRT	GTB(D)
25	120	3.049	409	0.8946	LT	
26	41	1.796	408	0.1805	BRT	GTB(D)
27	150	3.731	425	1.3168	BRT	GTB
28	86	5.964	425	1.2068	BRT	GTB(D)
29	31	6.126	323	0.5879	BRT	GTB(D)
30	100	12.449	461	2.7004	BRT	GTB
31	160	4.198	443	1.5162	BRT	GTB(D)
32	47	17.920	425	1.9817	BRT	GTB(D)
33	37	4.533	425	0.3946	LT	
34	38	9.149	514	0.6764	BRT	GTB
35	59	7.381	425	1.0247	BRT	GTB
36	45	8.806	425	0.9324	BRT	GTB
37	29	6.955	445	0.4532	BRT	GTB(D)
38	260	2.567	457	1.4604		R
39	15	17.890	453	0.5924	BRT	GTB(D)
40	220	2.215	425	1.1466	BRT	GTB(D)
41	100	7.244	437	1.6577	BRT	GTB(D)
41	120	4.531	425	1.2793	BRT	GTB(D)
42	130	8.149	434	2.4409	BRT	GTB(D)
43	55	3.492	396	0.4850	BRT	GTB(D)
44	180	1.731	497	0.6269	LT	
45	120	4.209	426	1.1856	BRT	GTB
46	44	1.580	460	0.1511	BRT	GTB(D)
47	96	1.708	400	0.4099	BRT	GTB
48	18	4.350	402	0.1948	BRT	GTB
49	35	2.438	423	0.2017	BRT	GTB
50	24	3.166	400	0.1900	BRT	GTB
51	54	3.268	450	0.3922	BRT	GTB
52	12	3.328	450	0.0887	BRT	GTB
53	340	4.433	480	3.1400	BRT	GTB
54	29	4.172	418	0.2894	BRT	GTB(D)/GTC
55	37	1.761	450	0.1448	BRT	GTB
56	58	5.981	410	0.8461	BRT	GTB
57	95	1.597	423	0.3587	BRT	GTB
58	35	2.833	442	0.2243	BRT	GTB(D)/GTC
59	40	1.422	457	0.1245	BRT	GTB
60	23	2.775	475	0.1344	BRT	GTB
61	43	5.491	460	0.5133	BRT	GTB(D)
62	67	3.992	449	0.5957	BRT	GTB(D)
63	75	5.023	901	0.4181	BRT	GTB
64	36	3.499	496	0.2540	BRT	GTB(D)
65	110	3.040	474	0.7055	BRT	GTB(D)
66	100	3.179	410	0.7754	LT	
67	240	2.369	425	1.3378	LT	
68	70	6.943	453	1.0729	BRT	GTB
69	62	10.160	406	1.5515	BRT	GTB
70	41	7.454	465	0.6572	BRT	GTB
71	84	9.496	450	1.7726	BRT	GTB
72	31	11.696	425	0.8531	BRT	GTB(D)
73	36	8.026	506	0.5710	BRT	GTB
74	74	4.704	483	0.7207	BRT	GTB
75	84	8.638	270	2.6874		R
76	110	5.827	440	1.4568	BRT	GTB
77	11	8.066	450	0.1972	BRT	GTB(D)
78	210	6.082	408	3.1304	BRT	GTB
79	200	6.397	468	2.7338	BRT	GTB
80	54	10.716	418	1.3844	BRT	GTC
81	83	3.179	428	0.6165	BRT	GTB(D)/GTC
82	190	6.730	467	2.7381	BRT	GTB
83	130	6.080	449	1.7604	BRT	GTB
84	50	3.570	249	0.7169	BRT	GTC
85	31	3.077	474	0.2012	BRT	GTB
86	110	4.362	482	0.9955	BRT	GTB(D)
87	100	1.331	549	0.2424	BRT	GTB
88	29	4.151	469	0.2567	BRT	GTB
89	490	4.671	453	5.0525	BRT	GTB(D)
90	190	3.095	417	1.4102	BRT	GTB(D)/GTC
91	100	3.180	450	0.7067	BRT	GTB
92	47	3.026	428	0.3323	BRT	GTB
93	26	2.163	468	0.1202	BRT	GTB(D)/GTC
94	20	2.958	500	0.1183	BRT	GTB(D)/GTC
95	54	2.677	450	0.3212	BRT	GTB(D)/GTC
96	60	1.939	424	0.2744	BRT	GTB(D)/GTC
97	310	1.407	404	1.0796	BRT	GTB
98	200	1.783	464	0.7685	BRT	GTB(D)/GTC
99	100	3.585	460	0.7793	BRT	GTB(D)/GTC
100	40	1.795	429	0.1674	BRT	GTB
101	45	2.699	449	0.2705	BRT	GTB
102	90	3.324	458	0.6532	BRT	GTB
103	50	3.571	450	0.3968	BRT	GTB
104	36	2.588	435	0.2142	BRT	GTB(D)/GTC
105	19	1.663	487	0.0649	BRT	GTB
106	160	2.754	381	1.1565	LT	
107	77	5.195	495	0.8081	BRT	GTB(B)/GTC
108	70	5.127	444	0.8083	BRT	GTC
109	200	3.466	444	1.5613	BRT	GTC
110	20	9.642	428	0.4506	BRT	GTC
111	24	7.750	477	0.3899	BRT	GTC
112	120	8.679	437	2.3832	BRT	GTB
113	47	3.024	450	0.3158	BRT	GTB
114	15	6.331	425	0.2234	BRT	GTB
115	48	8.999	425	1.0164	BRT	GTB
116	27	7.656	425	0.4864	BRT	GTB(D)
117	23	4.933	477	0.2379	BRT	GTC
118	160	5.992	425	2.2558	BRT	GTB
119	21	3.627	442	0.1723	BRT	GTB
120	44	4.005	388	0.4542	BRT	GTB
121	12	5.096	425	0.1439	BRT	GTB
122	100	3.875	348	1.1135	BRT	GTB
123	320	1.948	400	1.5584	LT	
124	420	4.939	450	5.2920	BRT	GTB
125	800	NA	NA	NA	BRT	GTB
126	160	1.090	360	0.4844	BRT	GTB
127	130	1.691	424	0.5185	BRT	GTB(D)
128	49	6.766	380	0.8725	BRT	GTB
129	65	1.856	454	0.2657	BRT	GTB
130	90	1.198	400	0.2696	BRT	GTB
131	54	2.105	443	0.2566	BRT	GTB
132	420	2.220	450	2.0720	BRT	GTB
133	33	1.782	473	0.1243	BRT	GTB
134	70	2.120	469	0.3164	BRT	GTB(D)/GTC
135	290	2.084	521	1.1600	BRT	GTB(D)/GTC
136	95	2.190	443	0.4696	BRT	GTB
137	18	3.361	438	0.1381	BRT	GTB
138	1500	1.993	423	7.0674	BRT	GTB
139	49	1.979	387	0.2506	BRT	GTB(D)
140	210	1.821	653	0.5856	BRT	GTB
140	37	9.168	824	0.4117	LT	
141	64	2.005	417	0.3077	BRT	GTB
142	73	2.049	437	0.3423	BRT	GTB
143	260	1.566	416	0.9788	BRT	GTB
144	110	2.141	478	0.4927	BRT	GTB

MAP#	SnR	W1	W2	SnW	FORM	TT
145	200	1.178	450	2.6500	BRT	GTC
146	295	2.166	450	3.3040	BRT	GTB
147	140	3.551	478	1.0400	BRT	GWC
148	170	2.998	434	1.1743	BRT	GWC
149	120	3.966	304	1.5655	BRT	GTB(D)/GTC
150	130	5.397	457	1.5353	BRT	GTC
151	54	5.396	425	0.6856	BRT	GTA
152	93	16.851	456	3.4367	BRT	GWC
153	680	3.512	483	4.9444	BRT	GTB
154	41	8.732	293	1.2219	BRT	STB
155	14	7.853	425	0.2587	BRT	GWB
156	60	3.555	355	0.6008	BRT	GWB
157	120	8.537	425	2.4104	BRT	GTC
158	57	2.115	397	0.3037	BRT	GTB
159	110	5.112	489	1.1499	BRT	GTC
160	26	5.519	425	0.3376	BRT	GTB
161	18	9.151	425	0.3876	BRT	GTB
162	65	4.977	425	0.7612	BRT	GTB
163	5	5.253	425	0.0618	BRT	GTB
164	5	5.074	425	0.0597	BRT	GTC
165	41	2.730	425	0.2634	BRT	GTB
166	120	4.772	425	1.3474	BRT	GTB
167	200	4.600	425	2.1647	BRT	GTC
168	140	8.561	423	2.8334	BRT	STB
169	120	14.453	526	3.2973	BRT	STB
170	12	6.372	486	0.1573	BRT	GWB
171	120	3.251	395	0.9876	BRT	GWB
172	170	3.308	400	1.4059	BRT	GTB/GWB
173	450	3.020	450	3.0195	BRT	GTB
174	560	3.738	450	3.0036	BRT	GTB
175	130	1.551	287	0.7025	BRT	GTB
176	630	3.398	457	4.6843	BRT	GTB
177	180	2.390	415	1.0366	BRT	GTB
178	43	2.542	333	0.3282	BRT	GTB
179	32	1.049	336	0.0999	LT	
180	110	1.981	450	0.4842	BRT	GTB
181	90	2.031	409	0.4469	BRT	GTB
182	50	1.966	450	0.2184	BRT	GTB
183	100	2.800	400	0.7000	BRT	GTB
183	43	2.425	594	0.1755	LT	
184	350	2.105	318	2.3168	BRT	GTB
185	360	1.717	585	1.0566	BRT	GTB
186	200	3.578	892	0.8022	BRT	GTC
187	210	2.433	589	0.8675	LT	
188	14	1.333	457	0.0408	BRT	GTB
189	89	1.458	450	0.2884	BRT	GTB
190	390	1.574	397	1.5462	BRT	GTB
191	110	1.733	496	0.3843	BRT	GTB
192	460	2.301	480	2.2051	BRT	GTB
193	78	3.170	460	0.5375	BRT	GTB
194	400	1.472	492	1.1967	BRT	GTB
195	210	1.663	453	0.7709	BRT	GTB
196	190	1.951	885	0.4189	BRT	GTB
197	90	2.588	420	0.5546	BRT	GTB
198	550	1.791	442	2.2286	BRT	GTB
199	260	5.691	425	3.4816	BRT	GTB
200	190	2.541	434	1.1124	BRT	GTB
201	54	2.909	472	0.3328	BRT	GTB
202	400	3.133	278	4.5079	BRT	GTB
203	89	1.671	409	0.3636	BRT	GTB
204	210	3.538	410	1.8121	BRT	GTB
205	340	2.288	406	1.9161	BRT	GTB
206	350	2.228	481	1.6212	BRT	GTB
207	180	3.144	355	1.5941	BRT	GTC
208	170	2.931	480	1.0381	BRT	GTC
209	100	3.570	456	0.7829	BRT	GTC
210	150	3.358	407	1.2376	BRT	GWC
211	190	6.353	458	2.6355	BRT	GWC
212	120	9.774	475	2.4692	BRT	GWC
213	86	7.476	425	1.5128	BRT	GWC
214	40	30.506	411	2.9690	BRT	GWB
215	41	4.811	450	0.4383	BRT	GWB
216	48	8.249	498	0.7951	BRT	GWB
217	610	4.867	450	6.5975	BRT	GTC

MAP#	SnR	W1	W2	SnW	FORM	TT
218	140	5.424	425	1.7867	BRT	GTC
219	210	5.717	425	2.8249	BRT	GWC
220	260	6.808	425	4.1649	BRT	GWB
221	100	3.614	475	0.7608	BRT	GWC
222	3	5.632	280	0.0603	BRT	GTB
223	46	3.092	454	0.3133	BRT	GTB
224	45	4.493	430	0.4702	BRT	GTC
225	10	5.452	506	0.1077	BRT	GTB
226	70	3.534	467	0.5297	BRT	GTB
227	23	6.213	449	0.3183	BRT	GTB
228	29	5.990	460	0.3776	BRT	GTB
229	39	3.518	448	0.3063	BRT	GTB
230	50	5.833	478	0.6101	BRT	GTB
231	49	2.037	423	0.2360	BRT	GTB
232	93	4.825	473	0.9487	BRT	GTB
233	100	3.322	467	0.7113	BRT	GWB
234	39	6.479	425	0.5945	BRT	GTB
235	70	5.321	473	0.7875	BRT	GTB
236	34	3.058	503	0.2067	BRT	GTB
237	25	3.635	425	0.2138	BRT	GTB
238	8	3.274	462	0.0567	BRT	GTB
239	12	10.564	440	0.2881	BRT	STB
240	12	6.533	425	0.1845	BRT	GTB/STB
241	16	4.176	507	0.1318	BRT	GTB
242	18	5.981	484	0.2224	BRT	GTB
243	45	2.469	425	0.2614	BRT	GTB
244	40	2.612	417	0.2506	BRT	GTB
245	65	3.173	398	0.5182	BRT	GTB
246	4	17.859	443	0.1613	BRT	STB
247	11	3.445	257	0.1475	BRT	GWB
248	5	10.517	457	0.1151	BRT	GWB
249	19	3.770	463	0.1547	BRT	GTB
250	5	32.820	376	0.4364	BRT	STB
251	20	3.082	425	0.1450	BRT	GTB
252	11	5.661	425	0.1465	BRT	GTB
253	8	6.665	233	0.2288	BRT	STB
254	12	1.132	261	0.0520	BRT	STB
255	410	3.357	450	3.0586	BRT	GTC
255	250	3.460	450	1.9222	BRT	GTC
256	82	3.569	475	0.6161	BRT	GTC
257	250	2.306	460	1.2533	BRT	GTC
258	190	1.745	395	0.8394	BRT	GTB
259	320	1.595	440	1.1600	BRT	GTB
260	130	1.154	451	0.3326	H	GTA
261	230	2.521	488	1.1882	BRT	GTC
262	230	2.254	395	1.3125	BRT	GTB
263	270	1.177	395	0.8045	BRT	GTB
264	130	1.490	439	0.4412	BRT	GTB
265	180	2.614	459	1.0251	BRT	GTB
266	41	2.604	395	0.2703	BRT	GTB
267	110	1.646	546	0.3316	BRT	GTB
268	160	1.075	474	0.3629	BRT	GTB
269	76	1.995	853	0.1777	BRT	GTB
270	140	4.161	400	1.4563	BRT	GWC
271	46	12.908	404	1.4697		R
272	14	5.730	228	0.3518		R
273	18	8.096	381	0.3825	BRT	STB
274	28	1.370	400	0.0959	BRT	GWC

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MAP#	SnR	W1	W2	SnW	FORM	TT
1	6	4.016	392	0.0615	BRT	GTB(D)
2	42	2.512	450	0.2345	LT	
3	22	0.551	331	0.0366		R
4	24	3.334	346	0.2313	BRT	GTB(D)
5	14	5.842	292	0.2801	BRT	GTB
6	8	4.135	140	0.2363	BRT	GTB
7	17	14.339	353	0.6905	BRT	GTB
8	37	3.236	411	0.2913	BRT	GTB
9	45	3.299	380	0.3907	BRT	GTB
10	67	6.133	450	0.9131	LT	
11	26	7.883	450	0.4555	BRT	GTB(D)
12	120	2.887	160	2.1653	LT	
13	71	6.215	223	1.9788	BRT	GTB
14	64	2.808	197	0.9122	BRT	GTB
15	34	3.729	136	0.6816	LT	
16	130	1.365	36	4.9292	BRT	GTB(D)
17	35	11.541	157	2.5728	LT	
18	48	6.608	190	1.6694	LT	
19	79	3.446	125	2.1779	LT	
20	32	10.267	350	0.9387	LT	
21	53	9.717	126	4.0873	LT	
22	36	7.357	232	1.1416	BRT	GTB
23	46	4.133	403	0.4718	BRT	GTB
24	140	11.561	257	6.2978	BRT	GTB
25	64	4.036	200	1.2915	LT	
26	100	2.959	87	3.4011	LT	
27	57	9.315	191	2.7799	LT	
28	190	3.281	156	3.9961	LT	
29	64	2.894	434	0.4268	BRT	GTB
30	48	0.443	135	0.1575	BRT	GTB
31	510	1.239	450	1.4042	BRT	GTB
32	49	1.059	270	0.1922	BRT	GTB
33	9	1.220	333	0.0330	BRT	GTB
34	8	1.115	205	0.0435	BRT	GTB
35	17	4.307	193	0.3794	BRT	GTB
36	16	10.082	241	0.6693	BRT	GTB(D)
37	18	1.890	59	0.5766	BRT	GTB(D)
38	9	2.330	164	0.1279	BRT	GTB(D)
39	21	6.926	324	0.4489	BRT	GTB
40	45	1.729	342	0.2275	LT	
41	21	13.524	252	1.1270	BRT	GTB
42	67	0.250	246	0.0681	BRT	GTB
43	17	0.094	450	0.0036	BRT	GTB(D)
44	31	6.265	398	0.4880	BRT	GTA
45	21	2.855	466	0.1287	LT	
46	15	15.829	345	0.6882	BRT	GTB
47	17	27.500	337	1.3872	BRT	GTB
48	13	17.021	204	1.0847	BRT	GTB
49	16	0.768	50	0.2458	LT	
50	22	0.889	98	0.1996	LT	
51	15	12.097	300	0.6049	BRT	GTB
52	41	3.615	272	0.5449	LT	
53	120	9.371	435	2.5851	BRT	GTB(D)
54	320	7.397	258	9.1746	BRT	GWB
55	110	3.271	162	2.2210	LT	
56	190	3.784	151	4.7613	LT	
57	78	5.768	162	2.7772	LT	
58	50	6.772	396	0.8551	LT	
59	100	8.192	269	3.0454	BRT	GTB(D)
60	50	5.561	440	0.6319	BRT	GTB
61	86	4.679	450	0.8942	LT	
62	23	1.542	117	0.3031	LT	
63	36	2.921	185	0.5684	LT	
64	32	7.601	233	1.0439	BRT	GTB
65	17	9.150	234	0.6647	LT	
66	44	8.877	397	0.9838	BRT	GTB
67	64	3.578	438	0.5228	BRT	GTB
68	75	2.214	450	0.3690	BRT	GTB
69	86	6.894	122	4.8597	BRT	GTB(D)
70	22	7.232	290	0.5486	BRT	GTB(D)
71	130	4.513	390	1.5043	LT	
72	53	8.513	482	0.9361	LT	
73	45	10.721	450	1.0721	LT	
74	86	10.931	416	2.2598	LT	
75	86	5.715	450	1.0922	LT	
76	64	3.364	54	3.9870	BRT	GWB
77	58	4.596	116	2.2980	LT	
78	36	0.420	33	0.4582	BRT	GTB
79	21	2.431	173	0.2951	LT	
80	53	1.807	157	0.6100	LT	
81	83	0.707	158	0.3714	LT	
82	71	3.979	205	1.3781	LT	
83	16	12.643	339	0.5967	BRT	GTB
84	16	4.372	119	0.5878	BRT	GTB
86	53	12.258	422	1.5395	BRT	GTB
87	13	4.658	328	0.1846	LT	
89	500	4.372	284	7.6972	LT	
90	38	2.213	216	0.3893	LT	
91	42	1.843	279	0.2774	LT	
92	45	3.088	167	0.8321	LT	
93	29	2.131	135	0.4578	LT	
94	54	13.406	324	2.2343	BRT	GTB(D)
95	41	7.600	382	0.8157	BRT	GTB
96	19	4.052	398	0.1934	BRT	GTB
97	10	6.267	450	0.1393	BRT	GTB
98	71	3.078	244	0.8956	BRT	GTB
99	39	6.226	248	0.9791	BRT	GTB
100	50	5.125	378	0.6779	LT	
102	18	3.402	245	0.2499	LT	
103	54	1.840	138	0.7200	LT	
104	36	5.387	331	0.5859	BRT	GWB
105	59	6.693	248	1.5923	BRT	GWB(D)
106	440	4.207	216	8.5698	BRT	GTB(D)
107	280	2.113	387	1.5288	BRT	GTB
108	37	3.387	87	1.4404	BRT	GTB
110	11	6.206	227	0.3007	BRT	GTB
111	21	3.437	180	0.4010	BRT	GTB
112	17	11.217	450	0.4238	BRT	GTB
113	8	7.869	450	0.1399	BRT	GTB
114	51	19.173	243	4.0240	BRT	GTB
115	18	1.678	334	0.0904	BRT	GTB
116	100	1.955	456	0.4287	BRT	GTB
117	50	3.348	244	0.6861	LT	
118	43	9.935	340	1.2565	BRT	GWC
119	57	5.030	76	3.7725	BRT	GWC
120	23	10.002	307	0.7493	BRT	GTB(D)
121	71	3.299	137	1.7097	LT	
122	71	1.201	141	0.6048	BRT	GWB
123	47	1.350	130	0.4881	BRT	GTB
124	35	2.171	374	0.2032	BRT	GTB
125	10	5.461	301	0.1814	BRT	GTB
126	510	4.306	206	10.6605	BRT	GTB
127	12	2.779	466	0.0716	BRT	GTB
128	26	9.391	312	0.7826	BRT	GTB
129	14	11.729	337	0.4873	LT	
130	64	1.492	196	0.4872	BRT	GTB
131	93	2.005	246	0.7580	BRT	GTB/GWB
132	15	2.931	132	0.3331	BRT	GWB
133	64	2.094	182	0.7364	BRT	GWB
134	7	11.514	338	0.2385	BRT	GTB
135	20	8.588	366	0.4693	BRT	GTB
136	830	2.744	344	6.6207	BRT	GTB
137	120	3.887	450	1.0365	BRT	GTB
138	17	1.891	255	0.1261	BRT	GTB
139	16	4.047	327	0.1980	BRT	GTB
140	20	2.599	245	0.2122	BRT	GTB
141	79	1.369	364	0.2971	BRT	GTB
143	24	4.999	207	0.5796	BRT	GTC
144	24	1.665	233	0.1715	BRT	GWB
145	39	2.813	183	0.5995	BRT	GTC
146	32	3.285	172	0.6112	BRT	GWB
147	21	1.438	450	0.0671	BRT	GTB
148	25	3.093	296	0.2612	BRT	GTB
149	48	1.713	334	0.2462	BRT	GTB
150	12	5.227	481	0.1304	BRT	GTB
151	27	4.684	499	0.2534	BRT	GTB

MAP#	SnR	W1	W2	SnW	FORM	TT
152	8	2.683	466	0.0461	BRT	GTB
153	10	4.468	180	0.2482	BRT	GWB
154	10	11.135	312	0.3569	BRT	GWB
155	38	1.319	85	0.5897	BRT	GTB
156	110	0.796	37	2.3665	LT	
157	25	6.281	196	0.8011	LT	
158	79	3.189	450	0.5598	BRT	GTB(D)
159	36	2.339	135	0.6237	BRT	GTB
161	18	2.053	81	0.4562	BRT	GTB
162	27	8.855	114	2.0972	LT	
163	33	5.126	139	1.2170	BRT	GTB
164	36	2.169	170	0.4593	BRT	GTB
165	13	2.132	153	0.1812	BRT	GTB
166	45	5.616	230	1.0988	LT	
167	18	4.171	261	0.2877	BRT	GTB
168	53	1.340	76	0.9345	LT	
169	16	2.030	450	0.0722	BRT	GTB
170	25	2.858	496	0.1441	LT	
171	65	3.664	403	0.5910	BRT	GTB(D)
172	170	6.020	324	3.1586	BRT	GTB
173	24	6.449	414	0.3739	LT	
174	18	12.220	271	0.8117	BRT	GWB(D)
175	26	5.078	359	0.3678	LT	
176	16	3.408	450	0.1212	LT	
177	38	8.930	340	0.9981	BRT	GTB
178	22	3.423	450	0.1673	LT	
179	22	3.974	356	0.2456	LT	
180	29	8.663	208	1.2078	BRT	GTB
181	44	9.692	280	1.5230	LT	
182	38	3.645	299	0.4632	BRT	GTB
183	16	8.480	466	0.2912	BRT	GWB
184	26	15.621	381	1.0660	BRT	GWB
185	19	13.792	435	0.6024	BRT	GWB
186	4	6.682	450	0.0594	BRT	GWB
187	16	4.404	218	0.3232	BRT	GWB

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MAP#	Str#	V1	V2	Str/V	FORM	TT
1	26	6.662	267	0.6487	LT	
2	36	1.626	400	0.1463	LT	
3	45	2.073	400	0.2332	LT	
4	24	4.788	400	0.2873	LT	
5	13	4.401	400	0.1430	LT	
6	29	10.700	400	0.7758	BRT	STB(D)
7	28	17.385	400	1.2170	LT	
8	8	7.249	400	0.1450	BRT	STB
9	17	13.539	400	0.5754	BRT	GTB/STB
10	16	6.876	400	0.2750	BRT	GTB
11	15	10.161	400	0.3810	BRT	STB
12	47	1.456	400	0.1711	LT	
13	21	6.024	409	0.3093	LT	
14	13	11.911	400	0.3871	BRT	STB
15	1	2.815	335	0.0084	LT	
16	11	0.828	400	0.0228	LT	
17	20	1.736	400	0.0868	BRT	GTB
19	16	14.386	400	0.5754	LT	
20	11	11.810	400	0.3248	LT	
21	5	18.593	400	0.2324	LT	
22	8	7.356	253	0.2326		R
23	19	7.283	400	0.3459	BRT	GTB
24	16	6.771	400	0.2708	BRT	GTB
25	11	11.486	400	0.3159	BRT	STB
26	17	11.035	394	0.4761	BRT	GTB/STB
27	25	7.213	400	0.4508	BRT	GTB(D)
28	19	1.352	132	0.1946	LT	
29	11	5.935	400	0.1632	LT	
30	25	5.089	400	0.3181	BRT	GTB
31	36	6.873	400	0.6186	BRT	GTB
32	19	4.135	400	0.1964	BRT	GTB
33	15	8.257	400	0.3096	BRT	GTB(D)
35	8	3.924	400	0.0785	BRT	GTB
36	12	7.045	400	0.2114	BRT	GTB
37	13	10.819	400	0.3516	BRT	GTB
38	15	10.965	400	0.4112	BRT	GTB(D)
39	25	3.834	305	0.3143		R
40	13	12.053	400	0.3917	BRT	GTB(D)
41	13	8.971	400	0.2916	BRT	GTB
42	24	9.120	425	0.5150	BRT	GTB
43	13	5.757	400	0.1871	BRT	GTB(D)
44	10	16.667	400	0.4167	LT	
45	5	33.474	400	0.4184	LT	
46	19	18.213	400	0.8651	LT	
47	10	8.662	128	0.6767	BRT	GTB
48	10	12.127	405	0.2994	BRT	GTB(D)
49	12	16.916	400	0.5075	BRT	GTB
50	36	1.776	324	0.1973	BRT	GTB
51	12	14.932	400	0.4480	BRT	GTB(D)
52	20	7.579	400	0.3790	BRT	GTB
53	30	11.663	400	0.8747	BRT	GTB
54	13	10.142	400	0.3296	BRT	GTB
55	31	5.552	382	0.4506	LT	
56	15	6.096	343	0.2666	BRT	GTB(D)
57	17	9.909	400	0.4211	BRT	GTB
58	47	7.397	396	0.8779	BRT	GTB(D)
59	15	7.798	400	0.2924	LT	
60	27	6.907	400	0.4662	LT	
61	19	8.765	400	0.4163	BRT	GTB
62	35	11.004	400	0.9629	BRT	GTB
63	37	15.147	400	1.4011	BRT	GTB
64	7	9.014	400	0.1577	BRT	GTB
65	19	15.665	400	0.7441	BRT	GTB(D)
66	30	3.533	375	0.2826	BRT	GTB
67	30	11.362	419	0.8135	BRT	GTB
68	30	27.272	400	2.0454	BRT	GTB(D)
69	4	30.179	400	0.3018	LT	
70	9	13.459	400	0.3028	BRT	GTB(D)
71	64	0.922	184	0.3207	BRT	GTB
72	19	27.658	400	1.3138	BRT	GTB
73	8	7.539	400	0.1508	LT	
74	15	24.362	400	0.9136	BRT	GTB
75	7	25.546	380	0.4706	LT	
76	4	28.165	400	0.2817	BRT	GTB(D)
77	6	30.282	400	0.4542	BRT	GTB
78	12	24.714	400	0.7414	BRT	GTC
79	6	9.348	400	0.1402	BRT	GTB
80	7	14.413	400	0.2522	BRT	GTB
81	7	33.343	400	0.5835	BRT	GTB(D)
82	9	7.898	400	0.1777	BRT	GTB
83	13	14.301	400	0.4648	LT	
84	4	2.505	400	0.0251	BRT	GTB
85	8	16.759	400	0.3352	BRT	GTB(D)
86	6	10.287	431	0.1432	BRT	GTB
87	9	10.387	400	0.2337	BRT	GTB
88	16	2.847	428	0.1064	BRT	GTB
89	8	9.052	400	0.1810	BRT	GTB
90	140	4.780	426	1.5709	BRT	GTB
91	35	2.759	400	0.2414	BRT	GTB
92	29	7.188	400	0.5211	LT	
93	14	2.580	243	0.1486	BRT	GTB

N.T.S. 21A/15 - 21H/02

MAP#	SnR	W1	W2	SnW	FORM	TT
1	9	5.773	460	0.1130	BRT	STB
2	43	10.116	450	0.9666	LT	
3	14	9.925	450	0.3088	LT	
4	9	3.635	236	0.1386	BRT	STB
5	11	13.610	169	0.8859	BRT	STB
6	7	13.560	286	0.3319	BRT	STB
7	7	10.257	283	0.2537	LT	
8	18	12.835	366	0.6312	BRT	GWB
9	64	8.499	450	1.2087	BRT	GTB/STB
10	190	10.601	450	4.4760	BRT	GTB/STB
11	79	6.365	450	1.1174	BRT	GTC
12	230	0.347	479	0.1666	BRT	GTB
13	150	0.680	210	0.4857	BRT	GTC
14	86	2.602	434	0.5156	BRT	GTC
15	190	4.374	450	1.8468	BRT	GTB
16	85	2.157	450	0.4074	BRT	GTB(D)
17	12	12.905	450	0.3441	BRT	GTB(D)
18	28	7.897	450	0.4914	LT	
19	20	5.644	450	0.2508	LT	
20	23	8.876	450	0.4537		ICSD
21	27	2.768	450	0.1661	BRT	GTB(D)
22	11	3.246	450	0.0793	BRT	GTB
23	13	5.169	450	0.1493	BRT	GTB
24	20	3.235	450	0.1438	LT	
25	40	9.181	461	0.7966	BRT	GTB
26	16	2.991	329	0.1455	BRT	GWB
27	9	10.512	450	0.2102	BRT	STB
28	29	11.824	450	0.7620	BRT	GTB/STB
29	15	9.583	450	0.3194	BRT	GTB
30	24	15.295	320	1.1471	BRT	GWB
31	25	10.428	323	0.8071	BRT	GWB
32	32	1.569	337	0.1490	BRT	GWB
33	11	6.564	450	0.1605	BRT	GTB
34	27	5.338	326	0.4421	BRT	GTB
35	23	0.795	450	0.0406	BRT	GTB
36	31	14.144	438	1.0011	BRT	GTB(D)
37	50	13.073	450	1.4526	BRT	GTB
38	11	10.508	450	0.2569	LT	
39	15	8.822	450	0.2941	BRT	GTB(D)
40	27	1.595	450	0.0957	BRT	GTB
41	12	4.066	450	0.1084	BRT	GTB
42	13	2.339	450	0.0676	BRT	GTB
43	43	3.422	450	0.3270	LT	
44	79	2.677	450	0.4700	BRT	GTC
45	13	7.526	450	0.2174	BRT	GTC
46	51	16.958	364	2.3760	BRT	GTB
47	48	4.460	293	0.7306	BRT	GWB
48	25	8.306	450	0.4614	BRT	STB
49	19	7.301	450	0.3083	BRT	GTB/STB
50	21	12.718	450	0.5935	BRT	GWB
51	26	13.412	450	0.7749	BRT	STB
52	50	3.145	450	0.3494	LT	
53	64	10.294	450	1.4640	BRT	GTB
54	25	3.867	408	0.2369	BRT	GTB
55	7	15.846	329	0.3371	BRT	GTB/GWB
56	14	5.028	450	0.1564	BRT	GTB
57	45	1.454	450	0.1454	BRT	GTB
58	11	21.218	450	0.5187	BRT	GWB
59	30	9.257	450	0.6171	BRT	GTB/GWB
61	22	3.578	450	0.1749	BRT	GTB
62	10	1.023	450	0.0227	BRT	GTB
63	17	1.303	450	0.0492	BRT	GTB
64	52	2.386	450	0.2757	BRT	GTB
65	29	11.560	450	0.7450	BRT	GTB(D)
66	45	10.020	324	1.3917	BRT	GTB(D)
67	32	7.065	284	0.7961	BRT	GTB
69	12	8.710	450	0.2323	LT	
70	29	6.360	450	0.4099	LT	
71	19	3.287	450	0.1388	LT	
72	21	3.338	450	0.1558	BRT	GTB
73	20	1.348	450	0.0599	BRT	GTB
74	45	4.618	450	0.4618	BRT	GTB
75	42	5.482	153	1.5049	LT	
76	18	3.031	450	0.1212	BRT	GTB
77	24	1.164	481	0.0581	BRT	GTB
78	14	10.981	450	0.3416	BRT	GTB(D)
79	24	6.749	450	0.3599	BRT	GTB(D)
80	14	4.179	450	0.1300	BRT	GTB(D)
82	12	1.923	345	0.0669	BRT	STB
83	15	1.067	450	0.0356	BRT	GTB(D)
84	24	3.191	450	0.1702	BRT	GTB
86	7	8.590	450	0.1336	BRT	STB
87	1	3.807	395	0.0096	BRT	STB
88	7	11.097	443	0.1753	BRT	STB
89	18	10.480	450	0.4192	BRT	STB
90	24	4.427	450	0.2361	BRT	GTB
92	13	1.052	450	0.0304	BRT	GTB
93	39	4.799	423	0.4425	BRT	GTB
94	37	5.313	430	0.5002	BRT	GTB
95	12	12.092	464	0.3127	BRT	GTB
96	51	8.039	450	0.9111	BRT	GTB
97	25	10.954	450	0.6086	BRT	GTB/STB
98	39	11.682	450	1.0124	BRT	GTB
99	20	3.883	450	0.1726	BRT	GTB
100	60	3.388	450	0.4517		R
101	17	5.468	398	0.2336	LT	
102	79	5.162	412	0.9898	LT	
103	100	0.656	376	0.1745	BRT	GTB
104	19	8.232	450	0.3476	LT	
105	41	15.914	437	1.4931	BRT	GTB(D)
106	19	4.096	450	0.1729	BRT	GTB
107	10	7.639	450	0.1698	LT	
108	18	9.588	246	0.7016	LT	
109	24	5.660	278	0.4886	BRT	GTB
110	23	10.798	254	0.9778	LT	
111	50	9.481	450	1.0534	BRT	GTB
112	39	7.514	373	0.7856	LT	
113	50	7.462	210	1.7767	BRT	GTB(D)
114	21	7.155	450	0.3339	LT	
115	39	6.128	450	0.5311	BRT	GTB
116	12	2.652	450	0.0707	LT	
117	45	4.518	244	0.8332	BRT	GTB
118	27	0.563	499	0.0305	BRT	GTB
119	19	6.256	450	0.2641	BRT	GTB
120	47	4.307	155	1.3060	BRT	GTB
121	34	7.894	450	0.5964	BRT	GTB
122	18	6.122	485	0.2272	BRT	GTB
123	44	3.693	414	0.3925	BRT	GTB
124	13	1.330	450	0.0384	BRT	GTB
125	19	12.652	417	0.5765	BRT	GTB(D)
126	9	6.157	450	0.1231	BRT	GTB
127	590	1.797	213	4.9776	BRT	GTB(D)
128	11	6.158	450	0.1505	BRT	GTB
129	9	9.600	450	0.1920	BRT	GTB(D)
130	22	6.277	450	0.3069	BRT	GTB
131	21	6.169	190	0.6818		ICSD
132	26	3.768	491	0.1995	BRT	GTB
133	29	5.969	450	0.3847	BRT	GTB(D)
134	30	2.290	251	0.2737	BRT	GWB
135	36	6.192	450	0.4954	BRT	GTB(D)
136	34	5.579	450	0.4215	BRT	GTB
137	79	3.992	450	0.7008	BRT	GTB
138	36	3.418	450	0.2734	LT	
139	29	10.850	381	0.8259	BRT	GTB
140	48	4.137	311	0.6385	LT	
141	100	3.395	174	1.9511	LT	
143	140	6.277	450	1.9528	LT	
144	100	27.447	439	6.2522	BRT	GTB
145	11	21.039	450	0.5143	BRT	GTB(D)
146	31	9.606	450	0.6617	LT	
147	41	9.732	450	0.8867	LT	
148	16	11.337	450	0.4031	BRT	GTB
149	19	2.783	450	0.1175	BRT	GTB(D)
150	49	2.916	279	0.5121	LT	
151	86	4.417	427	0.8896	LT	
152	43	4.040	231	0.7520	LT	

MAP#	SnR	M1	M2	SnM	FORM	TT
153	120	3.926	341	1.3816	LT	
154	39	7.702	458	0.6558	BRT	GTB(D)
155	18	3.563	450	0.1425	BRT	GTB
156	9	5.093	450	0.1019	BRT	GTB
157	33	4.214	199	0.6988	BRT	GTC
158	44	2.121	450	0.2074	BRT	GTB(D)
159	51	4.966	214	1.1835	BRT	GTB
160	11	9.922	450	0.2425	BRT	GTB
161	18	10.329	450	0.4132	BRT	GTB
162	14	3.217	446	0.1010	BRT	GTB
163	9	2.043	450	0.0409	BRT	GTB
164	18	9.393	450	0.3757	BRT	GTB
165	12	1.485	450	0.0396	BRT	GTB
166	1	7.994	450	0.0178	BRT	GTB(D)
167	14	9.308	450	0.2896	BRT	GTB(D)
168	44	7.580	450	0.7412	BRT	GTB(D)
169	5	31.639	247	0.6405	BRT	GTB
170	7	5.643	374	0.1056	BRT	GTB
171	13	4.549	450	0.1314	BRT	GTB
172	18	7.708	450	0.3083	BRT	GTB
173	8	9.427	423	0.1783	BRT	GTB
174	61	1.853	88	1.2845	BRT	GTB
175	71	8.685	445	1.3857	BRT	GTB(D)
176	41	3.160	182	0.7119	LT	
177	39	4.306	221	0.7599		ICSD
178	43	15.215	386	1.6949	LT	
179	47	7.299	482	0.7117	BRT	GTB(D)
180	79	4.897	450	0.8597	BRT	GTB
181	39	4.356	450	0.3775	BRT	GTB(D)
182	12	12.110	450	0.3229	BRT	GTB
183	120	5.649	450	1.5064	BRT	GTB
184	9	3.504	450	0.0701	LT	
185	44	10.432	450	1.0200	BRT	GTB(D)
186	100	5.372	450	1.1938	BRT	GTB
187	48	7.615	468	0.7810	BRT	GTB
188	20	4.332	450	0.1925	BRT	GTB(D)
189	86	3.870	450	0.7396	BRT	GTB
190	230	0.419	195	0.4942	BRT	GTB
191	21	13.519	458	0.6199	BRT	GTC
192	71	5.352	297	1.2794	BRT	GTB
193	49	3.725	450	0.4056	BRT	GTB
194	24	7.870	450	0.4197	BRT	GTB
195	22	4.743	450	0.2319	BRT	GTB
196	6	9.243	450	0.1232	BRT	GTB
197	28	3.221	450	0.2004	BRT	GTB
198	17	1.547	452	0.0582	BRT	GTB
199	10	10.019	450	0.2226	BRT	GTB(D)
200	11	7.528	450	0.1840	BRT	GTB
201	22	4.020	450	0.1965	BRT	GTB
202	22	3.274	450	0.1601	LT	
203	48	9.223	450	0.9838	LT	
204	16	8.395	450	0.2985	LT	
205	37	3.720	450	0.3059	BRT	GTB
206	10	4.832	450	0.1074	LT	
207	32	1.225	488	0.0803	LT	
208	12	2.861	450	0.0763	BRT	GTB
209	10	1.908	223	0.0856	BRT	GTB
210	19	0.461	488	0.0179	BRT	GTB
211	40	6.271	450	0.5574	BRT	GTB
212	110	3.750	450	0.9167	LT	
213	44	8.302	450	0.8118	LT	
214	31	6.807	322	0.6553	LT	
215	8	3.918	312	0.1005	BRT	GTB
216	15	4.793	450	0.1598	BRT	GTB
217	8	6.758	450	0.1201	BRT	GTB
218	11	5.758	450	0.1408	LT	
219	45	4.607	450	0.4607	BRT	GTB(D)
220	13	4.786	450	0.1383	LT	
221	14	7.085	450	0.2204	LT	
222	120	3.510	450	0.9360	LT	
223	19	7.101	450	0.2998	BRT	GTB(D)

N.T.S. 21A/16

MAP#	SnR	W1	W2	SnW	FORM	TT
1	7	6.209	450	0.0966	LT	
2	11	12.611	450	0.3083	BRT	GTB(D)
3	14	3.661	450	0.1139	LT	
4	31	10.305	450	0.7099	BRT	STB(D)
5	10	9.388	449	0.2091	BRT	GTB(D)
6	29	7.002	450	0.4512	LT	
7	13	13.634	467	0.3795	BRT	GTB(D)
8	19	5.089	450	0.2149	BRT	GTB(D)
9	41	6.159	450	0.5612	BRT	GTB(D)
10	32	1.101	450	0.0783	LT	
11	12	6.696	457	0.1758	BRT	GTB
12	17	2.136	450	0.0807	LT	
13	27	7.052	450	0.4231	BRT	GTB(D)
14	38	2.305	450	0.1946	BRT	HTB
15	380	2.975	305	3.7066	LT	
16	560	1.050	450	1.3067	LT	
17	63	3.400	104	2.0596		ICSD
18	50	3.509	450	0.3899	LT	
19	200	1.022	431	0.4742	BRT	GTB
20	36	2.242	450	0.1794	LT	
21	10	3.329	450	0.0740	LT	
22	23	3.005	328	0.2107	LT	
23	15	14.211	449	0.4748	BRT	STB
24	90	2.254	422	0.4807	BRT	GWB
25	20	6.280	450	0.2791	BRT	GTB(D)
26	120	9.759	453	2.5852		ICSD
27	33	3.240	450	0.2376	LT	
28	50	3.886	450	0.4318	LT	
29	11	1.452	450	0.0355	LT	
30	15	4.856	450	0.1619	BRT	GTB(D)
31	33	6.361	313	0.6706	BRT	GTB
32	32	5.655	450	0.4021	BRT	GTB(D)
33	33	2.632	477	0.1821	BRT	GTB
34	35	4.106	450	0.3194	BRT	GTB
35	45	3.792	467	0.3654	BRT	GTB
36	15	6.585	449	0.2200	LT	
37	8	4.125	450	0.0733	BRT	GTB(D)
38	46	5.102	450	0.5215	LT	
39	12	6.728	217	0.3721	LT	
40	18	13.191	449	0.5288	BRT	GTB(D)
41	21	2.147	450	0.1002	LT	
42	14	15.451	357	0.6059	H	GTA
44	32	3.139	450	0.2232	LT	
45	21	2.497	450	0.1165	BRT	GTB(D)
46	32	3.246	421	0.2467	BRT	GTB
47	110	1.847	388	0.5236	LT	
48	18	1.693	343	0.0888	BRT	GTB/GWB
49	21	1.426	450	0.0665	BRT	GTB
50	16	6.244	826	0.1209	BRT	GTB
51	30	2.417	319	0.2273	LT	
52	170	2.060	448	0.7817	LT	
53	21	5.647	450	0.2635	BRT	GTB(D)
54	21	5.528	450	0.2580	BRT	GTB(D)
55	51	1.853	450	0.2100	LT	
56	21	14.876	299	1.0448	BRT	GWB
57	51	1.062	360	0.1505	BRT	GTB
58	15	10.750	450	0.3583	BRT	GTC(D)
59	19	18.035	450	0.7615	LT	
61	30	1.977	450	0.1318	LT	
62	13	14.810	450	0.4278	BRT	GTB(D)
63	17	0.807	451	0.0304	BRT	GTB
64	16	3.109	417	0.1193	BRT	GTB
65	32	4.255	156	0.8728	BRT	GTB(D)
66	26	5.711	449	0.3307	BRT	GTB
67	48	5.756	450	0.6140	BRT	GTB(D)
68	25	3.975	450	0.2208	BRT	GTB(D)
69	33	7.980	465	0.5663	H	GTA
70	64	2.992	450	0.4255	LT	
71	40	2.504	450	0.2226	BRT	GTB(D)
72	140	3.882	459	1.1841	LT	
73	4	7.088	450	0.0630	BRT	GTB
74	29	3.001	450	0.1934	LT	
75	12	3.199	450	0.0853	LT	
76	25	2.319	450	0.1288	LT	
77	7	1.755	450	0.0273	LT	
78	21	1.884	450	0.0879	LT	
79	18	1.666	450	0.0666	LT	
80	14	0.520	450	0.0162	LT	
82	27	2.098	482	0.1175	LT	
83	10	8.762	406	0.2158	BRT	GTB
84	14	2.234	329	0.0951	BRT	GTB
85	17	2.126	450	0.0803	LT	
86	15	2.100	450	0.0700	BRT	GTB
87	12	1.846	450	0.0492	LT	
88	16	3.062	451	0.1086	LT	
89	27	1.738	450	0.1043	BRT	GTB(D)
90	12	2.170	450	0.0579	BRT	GTB
91	56	2.614	452	0.3239	LT	
92	46	3.958	452	0.4028	LT	
93	62	0.905	450	0.1247	LT	
94	250	0.978	459	0.5327	LT	
95	53	5.630	486	0.6140	BRT	GWB
96	58	2.906	497	0.3391	LT	
97	38	2.083	450	0.1759	LT	
98	77	1.489	450	0.2548	LT	
99	13	7.068	450	0.2042	BRT	GTB
100	69	4.178	450	0.6406	LT	
101	46	3.397	450	0.3472	LT	
102	77	4.684	450	0.8015	LT	
104	29	3.215	450	0.2072	BRT	GTB(D)
105	15	4.831	450	0.1610	BRT	GWB(D)
106	58	1.812	450	0.2335	BRT	GWB
107	13	11.552	372	0.4037	BRT	GTB
108	18	3.995	450	0.1598	BRT	GTB
109	16	4.700	463	0.1624	BRT	GTB
110	20	4.351	450	0.1934	BRT	GTB(D)
111	12	4.912	450	0.1310	LT	
112	16	5.723	450	0.2035	LT	
113	24	6.512	478	0.3270	BRT	GWB
114	69	5.632	450	0.8636	LT	
115	65	4.974	450	0.7185	BRT	GWC
116	85	2.591	450	0.4894	H	GTA
117	58	7.297	450	0.9405	LT	
118	220	6.025	148	8.9561	BRT	GTB(D)
119	44	1.077	450	0.1053	LT	
120	56	2.013	450	0.2505	LT	
121	16	8.262	450	0.2938	BRT	GTB
122	32	1.216	450	0.0865	BRT	GTB
123	62	2.190	452	0.3004	LT	
124	14	3.219	452	0.0997	LT	
125	20	3.036	293	0.2072	LT	
126	26	4.643	435	0.2775	BRT	GTB
127	20	3.007	360	0.1671	LT	
128	150	2.459	450	0.8197	LT	
129	200	4.025	301	2.6744	LT	
130	250	6.408	432	3.7083	BRT	GTB(D)
131	110	5.010	450	1.2247	LT	
132	46	4.375	450	0.4472	LT	
133	100	5.383	450	1.1962	LT	
134	120	4.717	450	1.2579	LT	
135	71	2.632	429	0.4356	LT	
136	64	5.534	426	0.8314	LT	
137	10	4.243	450	0.0943	LT	
138	20	3.568	450	0.1586	LT	
139	45	4.987	450	0.4987	LT	
140	79	6.551	450	1.1501	BRT	GTB(D)
141	71	3.030	390	0.5516	LT	
142	150	3.510	452	1.1648	LT	
143	110	5.303	452	1.2906	LT	
144	200	4.605	418	2.2033	LT	
145	57	2.684	450	0.3400	LT	
146	490	4.404	452	4.7742	BRT	GTB
147	230	1.261	483	0.6005	LT	
148	110	1.420	450	0.3471	LT	
149	52	1.898	450	0.2193	BRT	GTB
150	21	2.409	450	0.1124	BRT	GTB

MAP#	Sn#	W1	W2	Sn/W	FORM	TT
151	31	0.795	408	0.0604	LT	
152	24	4.027	387	0.2497	H	GTA
153	26	1.586	456	0.0904	BRT	GTB(D)
154	96	2.054	450	0.4382	BRT	GTB
155	430	2.211	307	3.0968	BRT	GTB(D)
156	1500	2.800	488	8.6066	BRT	GTB
157	150	2.757	448	0.9231	BRT	GTB
158	25	10.088	452	0.5580	BRT	GTB
159	81	2.955	452	0.5295	LT	
160	86	9.992	465	1.8480	LT	
161	64	10.603	450	1.5080	BRT	GTC(D)
162	24	3.617	450	0.1929	LT	

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